

We claim:

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Al 1. A substantially purified nucleic acid molecule that encodes a plant protein or fragment thereof comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 11840.

5 2. The substantially purified nucleic acid molecule according to claim 1, wherein said plant protein or fragment thereof is a wheat protein or fragment thereof.

3. A substantially purified wheat protein or fragment thereof, wherein said wheat protein is encoded by a nucleic acid molecule that comprises a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 11840.

10 4. A transformed plant having a nucleic acid molecule which comprises:

- (a) an exogenous promoter region which functions in a plant cell to cause the production of a mRNA molecule;
- (b) a structural nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 11840 or complements thereof;
- (c) a 3' non-translated sequence that functions in said plant cell to cause termination of transcription and addition of polyadenylated ribonucleotides to a 3' end of said mRNA molecule.

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20 5. The transformed plant according to claim 3, wherein said structural nucleic acid molecule is a complement of any of the nucleic acid sequences of SEQ ID NO: 1 through SEQ ID NO: 11840.

6. The transformed plant according to claim 4, wherein said plant is wheat, soybean, cotton or maize.

7. The transformed plant according to claim 4, wherein said plant is maize.

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